

Submit within 45 days of well completion	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505	Revised November 6, 2013				
HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		1. WELL API NO: 30-025-02860	2. Well Name: SHELL STATE #001			
		3. Well Number: 001				
4. Surface Hole Location:		Unit:O Lot:O Section:23 Township:17S Range:35E	Feet from:330 N/S Line:S			
5. Bottom Hole Location:		Unit:O Lot:O Section:23 Township:17S Range:35E	Feet from:1980 E/W Line:E			
6. latitude:		longitude: 32.8140106 -103.4262085				
7. County:		Lea				
8. Operator Name and Address: V-F PETROLEUM INC P.O. Box 1889 Midland 79702	9. OGRID: 24010	10. Phone Number: 432-683-3344				
11. Last Fracture Date: 10/20/2017 Frac Performed by: Cudd Enegy Services		12. Production Type: O				
13. Pool Code(s): 62180		14. Gross Fractured Interval: 4,238 ft to 4,248 ft				
15. True Vertical Depth (TVD): 4,635 ft		16. Total Volume of Fluid Pumped: 33,808 gals				
17. Total Volume of Re-Use Water Pumped: N/A		18. Percent of Re-Use Water in Fluid Pumped: Not Disclosed				
19. HYDRAULIC FLUID COMPOSITION AND CONCENTRATION:						
Trade Name	Supplier	Purpose	Ingredients	(CAS #) Chemical Abstract Service #	Maximum Ingredient Concentration in Additive (% by mass)	Maximum Ingredient Concentration in HF Fluid (% by mass)
Water		Carrier / Base Fluid		7732-18-5	100%	77.09697%
Sand		Proppant	Silicon Dioxide	14808-60-7	100%	21.96125%
B-15	Brenntag	Biocide	Tetrakis (hydroxymethyl) phosphonium sulfate	55566-30-8	20%	0.00298%
			Water	7732-18-5	80%	0.01193%
SG-15G	Multiple Suppliers	Polymer	Guar Gum	9000-30-0	50%	0.2337%
			Petroleum Distillate(Mineral Oil)	64742-47-8	55%	0.25707%
			Bentonite Clay	14808-60-7	2%	0.00935%
			Surfactant	68439-51-0	2%	0.00935%
XL-335	Multiple Suppliers	Crosslinker	Sodium Metaborate	7775-19-1	40%	0.05702%
			Glycerol	56-81-5	45%	0.06415%
BC-1	Rockwater	Breaker Catalyst	Triethanolamine	102-71-6	100%	0.10528%
			Diethanolamine	111-42-2	30%	0.03158%
GB-2	Multiple Suppliers	Breaker	Ammonium Persulfate	7727-54-0	99.9%	0.02738%
GB-150	Chemplex	Breaker	Mannanase Enzymes	Trade Secret	2%	0.00191%
			Sodium Chloride	7647-14-5	15%	0.0143%
			Water	7732-18-5	90%	0.08579%
NE-227	Ace Completions	Non-emulsifier	Proprietary	NA	15%	0.01334%
			Poly(oxy-1,2-ethanedyl), alpha hexyl-omega-hydroxy-	31726-34-8	5%	0.00445%
			Isotridecanol, ethoxylated	9043-30-5	5%	0.00445%
			Alcohol	68609-68-7	5%	0.00445%
			Solvent Naptha(Petroleum), Heavy Aromatic	64742-94-5	1%	0.00089%
			Water	7732-18-5	90%	0.08004%
20. I, as Operator, hereby certify that the information shown on this disclosure form is true and complete to the best of my knowledge and belief.						
Signature: <u>Signed Electronically</u>		Printed Name: <u>Eric Sprinkle</u>		Title: <u>Petroleum Engineer</u>		
Date: <u>1/25/2018</u>						
E-mail Address: <u>eric@vfpetroleum.com</u>						

NMOCD does not require the reporting of information beyond MSDS data as described in 29 CFR 1910.1200. NMOCD does not require the reporting or disclosure of proprietary, trade secret or confidential business information.